TS 160
P 2
Bound.

THE PAPER TRADE JOURNAL

HOWARD LOCKWOOD & CO., PUBLISHERS.

INDEX TO VOLUME XXII., 1893.

PAGE.

Accounts, Suggestions for Books and, 31
Advantage of Thorough Boiler Inspection, 805
Agents, 980
Registration of, 508
Agitator, 611
Alcohol and Acetic Acid from Paper, 134
Alkali, Apparatus for recovering, 273, 455
by Electrolysis, 314
Manufacture in the United Kingdom, 714
Works, Mathieson, 438
Alteration of Boilers under Pressure, 846
Alum in India, Manufacture of, 185
Alumina, Opportunities for Making, 11
American Flax, 938
American Paper Manufacturers' Association, 156, 279, 508, 692, 762, 774, 1124
Talc Company, 898
Ammonia Soda, 596
Among the Repair Shops, 837
Aniline, Yellow for Paper Making, 940, 961, 988, 1012
Apparatus and Method of Electrolyzing Solutions, 765
Drying, 683
Electrolytic, 47, 494, 499, 677, 831
for Coating Paper, 914
Depolarizing by Electrolysis, 1067
Drying Paperboard, 297
Folding Paper Bags, 848
Manufacturing Pulp Boxes, 848
Production of Chlorine, 71
Recovering Alkali, 273, 455
Reducing Paper Stock, 655
Regaining Sulphurous Acid, 229
Straining Paper Pulp, 514
Testing, 650
The Continuous Preparation of Paper Stock, 477
Mixing, 279
Pulp Saving, 406
Arrears and Capacities of Dams, 560
Artificial Board, 180
Asbestos Roofing, Covering, &c., 718
Automatic Cut-off Engine, 1158
Awards at World's Fair, 1004
Bankruptcy Laws, 148, 172, 630
Beechwood Fibre, 417
Beating Engine, 163, 743, 787, 1086, 1170
Bell, Hot Bearing, 160
Belt Tests, 585
Belts, Toughening, 648
Bill of Lading, 598
Sale, Law of, 875
Binders' Board, Capacity of Mills on, 1148
Black Ash Residuum, Treating, 930
Bleaches, Rotary, 793
Bleaching, A Few Words on, 694, 740, 762
Electric, 433
Peroxides for, 787
Powder Solution, Specific Gravity of, 916
Manufacture of, 1074
Blotting Paper, 418
Blowers, Short Stocks and, 1067
Blow-off, Stopping a Leaky, 514
Blue Cobalt, 802
Prussian, 1050
Books and Accounts, Suggestions for, 31
Board, Artificial, 180
Capacity of Mills on Binders', 1148
from Old Papers, Box, 398, 420, 343
Machine for Cutting Leather, 985
Paper, 222
Boilers, Deposit, 79
Feed Pump, 1073
Feeding, 47, 71
Inspection, Advantage of Thorough, 805

PAGE.

Boilers, Large Steam, 134
Non-Conducting Covering for, 472
Points Regarding Steam, 499, 521, 584, 595.
Pressures, 585
Room, Location of, 404
Setting, Improved, 1108
Settings, Masonry of, 582
Stirling Water Tube Steam, 44, 1112
Tubes, Steel, 86, 292
Boilers Under Pressure, Alteration in, 846
Bond, Goods in, 1043
Bonded Goods, 920
Boston Notes, 8, 27, 53, 88, 100, 119, 142, 170, 188, 210, 231, 257, 276, 299, 321, 346, 367, 392, 413, 458, 490, 502, 523, 545, 567, 591, 615, 635, 658, 683, 702, 724, 749, 768, 790, 811, 834, 859, 878, 905, 953, 974, 977, 1001, 1025, 1049, 1070, 1097, 1117, 1143, 1166.
Boxboards from Old Papers, 299, 420, 442
Bradford Celebration, 18, 304, 335, 349
Brokers, Powers and Duties of, 565
Building Paper, Capacity of Mills Making, 1100
Bunnell Feed Water Filter, 338
Burdensome Conditions, 932, 956
Business, Nerve in, 738
Calender Rolls, Doctor for, 450, 995
Improvements in, 1121
Canada, Annexing, 102
Canadian Misfits, 1156
Canal, 956
Convention, 598
Carriers, Liability of, 995, 1043, 1067
Rights and Duties of Express, 765
Carrying Company, Responsibility of, 56
Caseine Sizing, 93
Caustic and Bleach, Electrolytic, 1060
Soda, 336
Production by Electrolysis, 202, 214, 290, 306
Cell, Electrolytic, 899, 947
Cellulose By-products, 163
for Antiseptic Bandages, 514
Silk from, 25, 80
Chemical Changes in Mineral Colors, 477
Fibre, Machine for Reducing, 25
Manufacture of, 406
Chemistry of Paper Making, 1004
Chest, Stuff, 156
Chicago Notes, 7, 27, 54, 74, 99, 120, 166, 188, 213, 279, 322, 368, 392, 414, 439, 480, 527, 546, 571, 592, 617, 657, 680, 702, 725, 749, 767, 790, 833, 856, 877, 905, 926, 961, 977, 998, 1025, 1046, 1097, 1145, 1169
Chimney Construction, 677, 699
Foundations, 611, 633
Chimneys, Steel, 1074
Chloride of Lime Dissolver, 93
Chlorine, Apparatus for Production of, 71
Electrolytic, Production of, 146, 202, 214, 290, 306, 314
Liquid, 117, 172, 251
Process for Making, 1062
Process of Making, 411
Cholera and Rags, 216, 217
in German Paper Mill, 916
Chrome Substitutes, 831
Cincinnati Notes, 73, 187, 300, 457, 571, 679, 859, 953, 1093
Coal, Rare Bed of, 64
Waste of, 43
Wetting, 244
Coaling Equipment, 1115
Coating Machine, 1163
Paper, Apparatus for, 914
Cobalt Blue, 802
Color to Paper, Applying, 923
Colors, Chemical Changes in Mineral, 477

PAGE.

Columbian Exposition, 34, 42, 60, 80, 84, 238, 530
Combination Straw Wrapping, 424
Combinations Among Workmen, 831
Commercial Bulletin, 514
Cone, Turning a Big, 743
Contract of Guaranty, 589
Partnership, 433
Void for Fraud, 521
What Is a, 455
Contracts, Insurance, 899
Public Rights in Private, 297
with Newspapers, 932
Conveyor, Jeffrey Steel Cable, 224, 1136
Conveyors, Wire Cable, 828
Corporation Law, 1004
Cost of Preparing Caustic Soda and Bleach by Electrolysis of Salt, &c., 146, 202
Covering for Non-Conducting Boilers, 472
Credit, 980
Curtis Steam Trap, 784
Customs Administrative Act, 980
Cut-off Indicators, 1091
Damages, Law of, 543
Dams, Areas and Capacities of, 560
Dandy Roll, 365
Debt Secured by Mortgage, 1115
Debtors' Exemptions, 804, 824, 848 860, 890, 906, 942, 961, 988, 1038, 1062
Deckels, Device for Cleaning, 582
Delivery in Sale of Goods, 42
Detroit Notes, 614, 855, 1141
Device for Cleaning Deckels, 582
Diamond Machine Company, 870
Diaphragm, Electrolytic, 966, 1067
Digester, Evolution of the Sulphite, 543, 565, 589, 598, 611, 633, 655, 664, 677, 699, 708, 721, 743
Digesters, 297, 384, 450, 758, 818
Disinfection, 486, 505, 752
Doctor for Calender Rolls, 450, 995
Dryer Ends, Jacketed, 947
Dryers, Double Deck, 360
Drying Apparatus, 633
Electric Bleaching, 433
Electric Lighting for Mills, 1121, 1156, 1184
Power in Paper Making, 1002
Electricity, Losses in the Use of, 365
Electrolysis, Alkali by, 314
Apparatus for Depolarizing by, 1067
of Salt, &c., Cost of Preparing Caustic Soda and Bleach by, 146, 202
Soda and Chlorine by, 971
Electrolytic Apparatus, 47, 494, 499, 677, 831, 1180
Caustic and Bleach, 1060
Cell, 899, 947
Diaphragm, 966, 1067
Production of Chlorine, 146, 202, 214, 290, 306, 314
Electrolyzing Solutions, Method and Apparatus for, 765
Employers, Laws as to, 1088
Engine, Automatic Cut-off, 1158
Beating, 163, 743, 787, 1086
Fishkill Corliss, 1156
Rag, 207
Refining, 940
Requirements for a Good, 899, 923, 947
Engineering, Hydraulic, 433, 455
Poor, 14
Engines, Thumps in Steam, 831
Engraving and Printing, Supplies for Bureau of, 406
Envelopes and Government Competition, Stamped, 1134
Equities of Redemption, Levy on, 947
Erie Canal, 552

PAGE.

Esparto Boiling, 371
Evaporating Liquids, Powers of, 292
Evaporators, Lillie, 870
Evolution of the Sulphite Digester, 543, 565, 589, 598, 611, 633, 655, 664, 667, 699, 708, 721, 743
Exemptions, Debtors', 804, 824, 848, 860, 890, 906, 942, 961, 988, 1038, 1062
Export Trade, 442, 1148
Express Carriers, Rights and Duties of, 765
Feed Regulator for Paper Machines, 343
Few Words on Bleaching, A, 694, 740, 762
Fibre, Beechwood, 411
Bleaching Sulphite, 47
Machine for Reducing Chemical, 25
Manufacture of Chemical, 406
Fibres, Paper Making, 117
Fillers for Paper, 899
Filter, Bunnell Feed Water, 338
Fire Alarms, Ingenious, 380
Fire, Causes of, 319
Extinguisher Co., General, 90
Insurance Under Government Control, 1100
Firemen, Skilled versus Ignorant, 14
Fishkill Corliss Engine, 1156
Flax, American, 938
Fox River Notes, 7, 49, 96, 141, 187, 231, 275, 321, 367, 413, 457, 501, 545, 591, 635, 679, 723, 767, 811, 855, 901, 950, 997, 1049, 1093, 1141.
Fraud upon Third Parties, 971
Freight Rates, 1004
Friction, Shaft, 743, 765
Fund, Jordan Relief, 149, 173, 217, 239, 261, 279, 304, 336, 384.
F. G. Keller, 8, 32, 56, 172
Gas, Oxygen, 207
Gate, Self Locking Stuff, 141
General Fire Extinguisher Co., 90
Goods, Delivery in Sales of, 42
in Bond, 1043
Sold, Right of Seller to Hold or Reclaim, 47
Gotham Screen, 966
Governor Pulleys, 1027
Gauge, A Wooden Steam, 1019
Guaranty, Contract of, 589
Negotiabilty of a, 1163
Hand Guide for Paper Makers, 828
Hawaii, 126
Hofmann's Treatise on Paper Making, 752
Holyoke Notes, 7, 28, 50, 78, 112, 119, 142, 169, 191, 210, 232, 257, 275, 303, 322, 353, 367, 391, 414, 436, 458, 480, 502, 524, 546, 568, 606, 636, 658, 683, 701, 723, 746, 768, 790, 815, 833, 859, 879, 905, 925, 953, 974, 998, 1022, 1049, 1069, 1097, 1117, 1145, 1166.
Hot Bearing Bell, 160
Hydraulic Engineering, 433, 455
Indicators, Cut-off, 1091
Notes on 389
Indorsement, Effect of, 809
Indurated Wares, 912
Industrial Stocks, 398
Injector, 246
Insurance Policies, 235
Contracts, 899
Interest, Agreements for, 721
Bill, Five Per Cent, 148, 238
Law of, 677
Interior Department Supplies, 591
Interstate Commerce Law, 34, 374
Iron Building Construction, 136
Smoke Stack, 916
Jacketed Dryer Ends, 947
Jeffrey Mfg. Co. Exhibit, 806
Steel Cable Conveyor, 224, 1136
Wire Cable Conveyors, 828

PAGE.

Jordan, Joseph, 176
Relief Fund, 149, 173, 217, 239, 261, 279, 304, 336, 384.
Journal of Commerce, 192, 514
Kainit, Manufacture of Magnesia from, 224
Potash from 224
Soda from, 224, 846
Keller Fund, F. G., 8, 32, 56, 172
Knowles' Three Throw Power Stuff Pump, 1136
Lading, Bill of, 598
Laid Paper in United States, First Made, 1100
Low Cost Raceway, A, 1163
Leatherboard, Machine for Cutting, 985
Making Artificial, 990
Yarns, 985
Lessons of the Ledger, 134
Levy on Equities of Redemption, 947
Liability of Carriers, 995, 1043, 1067
Warehousemen, 244
Lien on Real Estate, Vendor's, 611
Lillie Evaporators, 870
Liquids, Powers of Evaporating, 292
Location of Boiler Room, 404
Lockwood, Howard, 905
Losses in the Use of Electricity, 365
Lord Mayor of London, 1073
Lubricants, 582
Lubrication, True Principles of 208
Lunken Gate Valve, 760, 1160
Machine, A Modern Paper, 382
Cylinder Paper, 549
for Coating Paper, 1115
Cross Cutting and Collating Paper, 716
Lining Strawboard, 543
Making Paper Bags, 1084
Making Parchment Paper, 706
Washing Pulp, 472
Waxing Paper, 521
Improvement in Paper, 433, 721
Paper, 1019
Polishing, 589
Pulp Molding, 365
Steam Regulator for Paper, 1091
Wood, 66
Wood Cutting, 1043
Machinery, Paper Box, 782
Transporting, 787, 809, 831
Machines, Feed Regulator for, 343
Improvement in Cylinder, 185
Improvements in Wet, 139
Suction Box for Paper, 853
Wires for Paper, 716
Wood Pulp, 809
Maker Shut Down His Mill, Why a, 477
Makers, Hand Guide for, 828
Making, Aniline Yellow for, 940, 961, 988, 1012
Manufacturers' Association, American, 156, 279, 508, 692, 762, 774, 1124
Metal Surfaced, 985
Magnesia from Kainit, Manufacture of, 224
Magnetic Pulleys, 304
Manilla Paper, History of, 893
Manufacture of Alum in India, 185
Manufacturing Plants, Increase of, 486
Investment Company, 705, 730
Marks in Paper, Starch, 139
Mathieson Alkali Works, 428
Mechanics, Practical, 326
Merchandise, Mortgages of, 805
Metal Surfaced Paper, 985
Mexico, Paper in, 338, 464
Miami Valley Notes, 750, 95, 123, 165, 209, 254, 300, 345, 378, 391, 435, 479, 523, 571, 613, 657, 701, 746, 789, 815, 856, 902, 949, 973, 997, 1021, 1045, 1069, 1094, 1141, 1165.

PAGE.

Miami Valley Floods, ... 399
Michigan Notes, . . 78, 231, 436, 567
Mills, Cholera in German Paper, . 916
in U. S., Sulphite, . . . 736
Mills, Electric Lighting for, 1121, 1156, 1184.
Timber Framing for, . . . 1026
Making Building Paper, Capacity of, ... 1100
on Binders' Board, Capacity of, . 1148
Practical Helps and Hints around, 1077, 1128, 1156
Protecting Mills, ... 1086
Straw Wrapping, ... 1052
Timber Framing for, ... 1026
Tissue, Capacity of, ... 1076
Writing Paper, ... 1028
Mill-wright, Trials and Triumphs of a, 1, 25, 63, 93, 117, 163, 184, 251, 273, 319, 389, 411
Mixing Apparatus, ... 279
Monarch Paper Cutter, ... 202
Money Orders, unpaid, ... 780
Stock of, ... 758
Mortgage, A Legal, ... 633
Debt, Secured by, ... 1115
Execution and Delivery of . . 1139
versus Conditional Sale, . . 923
Mortgaged Property, Removal, Concealment and Sale, ... 1073, 1108, 1122, 1146
Mortgages of Merchandise, . . . 853
Mortgagor's Right to Sell Property, . 1091
Negotiabillty of a Guaranty, . . 1163
Nerve in Business, ... 738
New Inventions, 396, 418, 462, 506, 531, 550, 573, 595, 650, 662, 716, 794, 837, (840), 882, 930, 954, 978, 1026, 1050, 1074, 1122, 1146, 1173.
Newspaper Circulation, Law as to, . 352
Names, English Law as to, . . 648
Newspapers, Contracts with, . . 932
Northern New York Notes, 64, 119, 210, 279, 379, 413, 440, 461, 501, 618, 679, 811, 834, 974, 1060, 1093, 1118, 1142.
Opportunities for Making Alumina, . 11
Ornamenting Paper, ... 930
Oxygen Gas, ... 207
Paper, Alcohol and Acetic Acid from, 134
Apparatus for Coating, . . . 914
Applying Color to, ... 923
Bag Litigation, ... 1104
Bags, Apparatus for Folding, . 848
Machine for Making, . . . 1084
Money Redeeming, ... 863
Blotting, ... 418
Board, ... 222
Apparatus for Drying, . . . 297
Box, Machinery, ... 782
Paper, Capacity of Mills Making, Building, ... 1100
Company, Racquette River, . . 961
Cutter, Monarch, ... 202
Fillers for, ... 899
For Public Printing, 30, 80, 103, 109
History of Manilla, ... 893
In Mexico, ... 238, 464
United States, First Made Laid, . 1100
Loom Picks, ... 840
Machine, ... 1019
A Modern, ... 382
Cylinder, ... 549
for Coating, ... 1115
for Waxing, ... 521
Improvement in, ... 433, 721

PAGE.

Paper, Cross Cutting and Collating, . 716
Making Parchment, ... 706
Steam Regulator for, ... 1091
At Chicago, ... 1056
Paper Making, Chemistry of, . . 1004
Electric Power in, ... 1002
Fibres, ... 117
Hofmann's Treatise on, . . . 725
in Massachusetts, ... 912
Yellow Aniline Colors for, 940, 961, 988, 1012
Paper, Ornamenting, ... 930
Paraffine for Enameling, . . . 268
Polishing Machine, ... 589
Press, Waste, ... 560
Pulp, Apparatus for Straining, . 514
Rice Starch for Sizing, . . . 514
Rolls, Spindle for, ... 319
Shaft for Winding 1139
Silky, ... 936
Starch, Marks in, ... 139
Stock, Apparatus for Reducing, . 655
Stock, Apparatus for the continuous Preparation of, ... 477
Tissue, ... 486
Trade Association, 84, 152, 232, 977, 1101
Patent Law in, ... 990
Twine, ... 716
Utility of Watermarks in . . 158
Papers, Box Boards from Old, 299, 398, 420, 442
Paraffine for Enameling Paper, . . 268
Parchment Paper, Machine for Making, ... 706
Partnerships, Winding Up, . . . 117
Contract of, ... 433
Patent and Trade Mark Laws, . . 1176
Patent, Is It Valid ? 229
Law in Paper Trade, ... 990
Suit, Bagley & Sewall v. Empire Wood Pulp Company, . . 709
Peroxides for Bleaching, . . . 787
Personal Property, Sale of, . . . 499
Philadelphia Notes, 28, 53, 74, 145, 180, 213, 257, 276, 322, 395, 435, 480, 567, 636, 723, 771, 812, 905, 953, 1142
Picks, Paper Loom, ... 840
Pipe Reels and Cores, ... 853
Policies, Insurance, ... 235
Pollution, River, ... 499
Waste Water and River, . . 499
Postage Stamps, ... 95
Postal Facilities, ... 530
Information, ... 690
Telegraph Bill, ... 1148
Post Office, ...
Appropriation Bill, . . . 172
Delay in, ... 10
Department Supplies, . 379, 428, 464
Potash from Kainit, Manufacture of, . 224
Powers and Duties of Brokers, . . 565
Practical Helps and Hints around Mills, . 1077, 1128, 1156, 1171
Mechanics, ... 326
Press Club Fair, ... 310
Rollstand, ... 565
Printer, Public, ... 279
Printing Office, Shavings and Waste of Public, ... 549
Paper for Public, . . 30, 80, 103, 109
Protecting Mills, ... 1086
Prussian Blue, ... 1050

PAGE.

Public Office, Paper Shavings and Waste, ... 549
Printer, ... 279
Printing Paper for, . . 30, 80, 103, 109
Pulleys, Governor, ... 1027
Magnetic, ... 304
Separable Iron, ... 672
Pulp Boxes, Apparatus for Manufacturing, ... 848
in Norway and Sweden, Wood, . 372
Machine for Washing, ... 472
Machines, Wood, ... 809
Molding Machine, ... 365
Saving Apparatus, ... 406
Screen, ... 1, 10, 246, 314
Strainer, . . . 389, 699, 875, 985
Pump, Boiler Feed, ... 1073
Knowles' Three-Throw Power Stuff, ... 1136
Pump, New Triplex, ... 200
A New, ... 882
Purifying Water, ... 1026
Quarantine Regulations, 80, 124, 216, 216
Raceway, Low Cost, ... 1163
Racquette River Paper Company, . 961
Rag Engine, ... 207
Stock, ... 216, 217
Rags, Cholera and, . . . 216, 217
Railroads, Duty of, ... 365
Railway Rates, ... 620
Railways to the Public, Relation of, . 343
Real Estate, Vendor's Lien on, . . 611
Recovering Organic Substances from Sulphite Liquor, ... 888
Redeeming Paper Money, . . . 863
Refining Engine, ... 940
Registration of Agents, ... 508
Finn's Bill, ... 260
Removal, Concealment and Sale of Mortgaged Property, 1073, 1108, 1122, 1146, 1182
Repair Shop Notes, 765, 837, 875, 985, 994, 1043, 1098, 1156, 1180
Repairs, Temporary, ... 990
Requirements for a Good Engine, 899, 923, 947
Residuum, Treating, Black Ash, . 930
Responsibility of Carrying Company, 56
Revetment Walls, ... 1139
Rice Starch for Sizing Paper, . . 514
Right of Seller to Hold or Reclaim Goods Sold, ... 47
River Pollution, ... 499
Rope, Transmission of Power by, 1080, 1110, 1134, 1147
Rotary Bleaches, ... 793
Steam Joint, ... 112
Rubber, from Cottair Seed Oil, . . 516
Substitute for, ... 336
Sale, Law of bill of, ... 875
of Goods, Delivery in, . . . 42
of Personal Property, ... 499
Sale Mortgage, versus Conditional, . 923
Sales of Goods, Delivery in, . . 42
San Francisco Notes, ... 49, 745
Screen, Pulp, . . . 1, 10, 246, 314
The Gotham, ... 966
Ticonderoga Balanced, Sectional, Diaphragm, ... 88
Setting, Improved Boiler, . . .1108
Settings, Masonry of Boiler, . . 582
Shaft for Winding Paper, . . . 1139
Friction, ... 743 765
Shavings and Waste from Public Printing Office, ... 549

PAGE.

Sheffield M'f'g Co., ... 915
Shops, among the Repair, . . . 837
Short Stacks and Blowers, . . . 1067
Signatures, Law of, ... 185
Silk from Cellulose, ... 25, 80
Silky Paper, ... 936
Silver Coinage 665, 686
Size, Apparatus for Heating, . . 650
Sizing, Caseine, ... 93
Paper, Rice Starch for, . . . 514
Slander Suit, Blancke v. Vernon, . 661
Smoke Stack, Iron, ... 916
Soda, Ammonia, ... 596
and Chlorine by Electrolysis, . 971
by Electrolysis of Salt, &c., Preparation of Bleach and Caustic, 146, 202
Caustic, ... 336
Soda Deposits in Wyoming, . . 155
from Kainit, Manufacture of, 224, 846
Production by Electrolysis of Caustic, . . . 202, 214, 290, 306
Some Notes, ... 672, 699, 721
Spindle for Paper Rolls, . . . 319
Stamped Envelopes and Government Competition, ... 1134
Starch Marks in Paper, ... 139
Stationers' Board of Trade, . 21, 60, 665
St. Louis Notes, 27, 78, 165, 209, 254, 299, 345, 391, 439, 524, 571, 613, 657, 701, 745, 789, 877, 925, 973, 1070
Steam Boiler Stirling Water Tube, 44, 1112
Boilers, Large, ... 134
Points, Regarding, 499, 521, 584, 595
Engines, Thumps in, ... 831
Gauge, A Wooden, ... 1019
How to obtain dry, ... 692
Joint, Rotary, ... 112
Pipes, Loss by Naked, . . . 146
" Leaky Joints in, . . . 266
Power Tests, . . . 207, 228, 251
Pressure, High, ... 343
Regulator for Paper Machine, . 1091
Trap, Curtis, ... 784
Steam Turbine, ... 882
Valve 628
Steel Chimneys, ... 1074
Stilwell-Bierce Exhibit, . . . 694
Stirling Water Tube Steam Boiler, 44, 1112
Stocks, Industrial 398
Stopping a Leaky Blow-off, . . 514
Strainer, Pulp, . . 389, 699, 875, 985
Strawboard, Machine for Lining, . 543
Situation 530, 863
Wrapping Combination . . 424
Mills, ... 1052
Stuff Gate, Self-Locking . . . 141
Chest 156
Substitutes, Chrome, ... 831
Suction Box for Paper Machines, . 853
Sulphite Fibre Bleaching, . . . 47
Industry 664
Liquor, Recovering Organic Substances from, ... 888
Mill in United States . . . 736
Liquor Spent, ... 809
Waste Liquor, Products from, . 1–71
Sulphurous Acid, Apparatus for Regaining, ... 229
Supplies for Bureau of Engraving and Printing, ... 406
for Interior Department, . . 591
Post Office Department, 379, 428, 464
Treasury Department, . . 531, 582
United States Senate, . . . 483
Tablet Manufacturers, ... 870
Talc at Gouverneur, ... 1014

PAGE.

Talc Company, American, . . . 828
Combination, ... 220
Tariff Decisions, ... 180
Revision, ... 260, 261
Wilson, . . . 1084, 1100, 1124, 1148
Protest versus, ... 1156
Telautograph, ... 343
Telephone Legislation, ... 216
Temporary Repairs, ... 990
Thumps in Steam Engines, . . . 831
Ticonderoga Bal. Sectional Screen, . 88
Timber Framing for Paper Mills, . 1026
Tissue Capacity of Mills, . . . 1076
Paper, ... 486
Toughening Belts, ... 648
Trade Abuses, ... 1124
Mark Laws, Patent and . . 1176
Marks, Validity of, ... 1099
Transmission of Power by Rope, 1080, 1110, 1134, 1147
Transporting Machinery, . 787, 809, 831
Treasury Department Supplies, . 531, 582
Trials and Triumphs of a Millwright, 1, 25, 63, 93, 117, 163, 184, 251, 273, 319, 389, 411
Trip to the World's Fair, A, . . 1180
Trow Directory Printing and Bookbinding Company, . . . 465
Tubes, Steel Boiler, . . . 86, 292
Turbine, Steam, ... 882
Turning a Big Cone, ... 743
Twine Paper, ... 716
Tyler, George R., ... 1073
Typewriting Machine Combination, . 282
Typothetæ of N. Y., ... 3266
Up the Hudson, Notes, ... 480
Usury, Agreements for, ... 1019
Valve, Lunken Gate, . . . 760, 1160
Vendor's Lien on Real Estate, . . 611
Waldhof Exhibit, ... 804
Walls, Revetment, ... 1139
Warehousemen, Liability of, . . 244
Wares, Indurated, ... 912
Washington Notes, 461, 505, 528, 571, 591, 618, 639, 661.
Waste of Coal, ... 43
Paper Press, ... 560
Water and River Pollution, . . 499
Water Hammer, ... 581
Purifying, ... 1026
Wheel, a Novel, ... 1003
Watermarks, Copying, ... 930
in Paper, Utility of, ... 158
Waxing Paper, Machine for, . . 521
Western N. Y. Notes, ... 96, 123, 141, 165, 213, 253, 300, 375, 391, 439, 479, 505, 524 606, 617, 683, 749, 771, 789, 812, 877, 925, 950, 1049, 1094, 1118, 1169
Wet Machines, Improvements in, . 139
Why a Paper Maker Shut Down his Mill, ... 477
Wires for Paper Machines, . . . 716
Wood Cutting Machine, ... 1943
Machine for Disintegrating, . . 66
Pulp in Norway and Sweden, . 372
Machines, ... 809
Workingmen, Plain Words to, . . 64
Workmen, Combinations Among, . 831
World's Fair, ... 738
A Trip to the, 873, 915, 939, 964, 988, 1012, 1036, 1132, 1180
Awards at, ... 1004
Writing Paper Mills, ... 1028
Yarns, Leather, ... 985
Yellow Aniline Colors for Paper Making, . . 940, 961, 988, 1012